Claims

- A combination vaccine for the protection of poultry against *Ornithobacterium rhinotracheale*, characterized in that said combination vaccine comprises a live over attenuated *Ornithobacterium rhinotracheale* strain and a live attenuated poultry virus.
- 2) A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Infectious Bronchitis virus, Newcastle Disease virus, Turkey Rhinotracheitis virus, Marek's virus or Avian Reovirus.
- A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Infectious Bronchitis virus, Newcastle Disease virus or Turkey Rhinotracheitis virus.
- 4) A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Newcastle Disease virus.
- 5) A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Newcastle Disease virus type NDC2.
- 6) A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Turkey Rhinotracheitis virus.
- A combination vaccine according to claim 1, characterized in that said live attenuated poultry virus is Infectious Bronchitis virus.
- 8) A combination vaccine according to claims 1-7, characterized in that said live overattenuated *Ornithobacterium rhinotracheale* has a mutation, said mutation preferably being a deletion, in the *purD*-gene or the *recA*-gene.
- 9) A combination vaccine according to claims 1-8, characterized in that said combination vaccine comprises an additional antigen derived from a virus or microorganism pathogenic to poultry or genetic information encoding said antigen.
- 10) A combination vaccine according to claim 9, characterized in that the virus or microorganism is selected from the group consisting of Infectious Bronchitis virus,

Infectious Bursal Disease (Gumboro), Chicken Anaemia agent, Avian Reovirus, *Mycoplasma gallisepticum*, Turkey Rhinotracheitis virus, *Haemophilus paragallinarum* (Coryza), Chicken Poxvirus, Avian Encephalomyelitisvirus, Duck Plague virus, Egg Drop syndrome virus, Infectious Laryngotracheitis virus, Herpes Virus of Turkeys, Eimeria species, *Ornithobacterium rhinotracheale, Pasteurella multocida, Mycoplasma synoviae, Salmonella* species and *E. coli*.

- 11) Use of a live over-attenuated *Ornithobacterium rhinotracheale* strain and a live attenuated poultry virus for the manufacturing of a combination vaccine for the protection of poultry against *Ornithobacterium rhinotracheale*.
- 12) Use of a live over-attenuated *Ornithobacterium rhinotracheale* strain and a live attenuated poultry virus for the manufacturing of a combination vaccine for the protection of poultry against *Ornithobacterium rhinotracheale*, wherein the live over-attenuated *Ornithobacterium rhinotracheale* strain and the live attenuated poultry virus are administered simultaneously, separately or sequentially.
- 13) Method for the preparation of a combination vaccine according to claims 1-10, characterized in that said method comprises the admixing of a live over-attenuated *Ornithobacterium rhinotracheale* strain, a live attenuated poultry virus and a pharmaceutically acceptable carrier.
- 14) A vaccination kit for the immunization of poultry against *Ornithobacterium rhinotracheale*, characterized in that said kit comprises
 - a) a live over-attenuated Ornithobacterium rhinotracheale strain and
 - b) a live attenuated poultry virus and
 - c) optionally a pharmaceutically acceptable carrier for the component under a and/or b.
- 15) A vaccination kit according to claim 14, characterized in that the carrier comprises an adjuvant.